# IMPROVISED MUNITIONS BLACK BOOK Volume 1

# IMPROVISED MUNITIONS

# **BLACK BOOK**

Volume 1



### IMPROVISED MUNITIONS BLACK BOOK

1001

DESERT PUBLICATIONS

## IMPROVISED HENETIC


- (Secluding Spotters)
- NUMBER AND GRENAGER
- ....
- TUTES, DETONATORS & DELAY MECHANISMS
- D. MINORY CAMPOON

PRAMEPORO ARRENAL Prindelphia 21, Passaytrania Fer further information or additional inserts, contact-

Communiting Officer Frankland Aressal

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### FOR OFFICIAL USE ONLY

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### OFFICIAL DESIGNATIONS

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### THE OFFICIAL SEE ONLY

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## FOR OFFICIAL USE ONLY

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## FOR OFFICIAL DRY CHIL

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# CASTON: The sierce preceding will recent plong louis.

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d AM 1/2 mp (10 millitrary) of shedul in the previor while storates



## NOW OFFICIAL THE CHO

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# RECLARA

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Dermoin or glose disk
File
Optional (NCS was be nir dried bed
Ded Storage

Tetapon Cup

## DOCESSAN.

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NOTE These questions seemed in obtain worse i statistic, see I polime o per I mp of C-4



## FOR OFFICIAL USE ONL

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4. Piller de mintere strangt a paper treed tots the other plane per. Week the positions ordinate on the paper need with 25 cap 13th milliblance of manday. Tot



8 Place the NOX particles in glass or rectood; state that the disk he a part of hot rector, not belling, and day for a partial of 1 hour



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## POR OFFICIAL ORE ONL

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of Filter the stratute through paper hand. What the purchaled on the paper with 4 tempera



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OR OFFICIAL UNIT ONLY

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2 Add the load in consider to the

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THE

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5 Pitter the queton-capture andstee through a paper trend to auxiliar glass combiner. Disort the solid into an iso paper terral.



Peur the Elizard existing time a regions or glass disk.

5 Evaporate the alcohol and water from the solution by placing the deal late a past of last value. Water product will remark to the dath after evapotation.



approximately 160° to 100°0°. It should not been the beauty

## te opystal, cor o

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E. Add I level insupress | 11 grains; of polanticis structs in three proteons to the prifero-trains solution selfvigorously during attainment failules will large your, and then both to a



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## MORE CHARGEST TOTAL CO.T.

id. Morely your the arbition, white science; take 1. LN top (10) MICTlization of unit water and close to pool.



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## FOR OFFICIAL DRIVER OFFI

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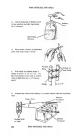
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1 hospen capacity) - aleximus, etablicas etabl or rescuested

ferriors



## FOR OFFICIAL URE ONL

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## FOR OFFICIAL USE

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## A CALLICAY FIRE ON

# 50, 16

# RODEN CHLORATE AND EDGAS OR ALTHOUGH EXPLORES

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# streamed with a Yes, It commercial or a billion

SATERIAL REGISTED SOURCE

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### OR OFFICIAL USE ONLY

259 72 CE

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### enlyance to kenings

MATERIAL REQUESTS

Dum pips, threshed under 1 315 Pennier Pips
to 2 fillers 17 to 8 long

eginene er grep majeriris hissik Klemmertisk et



### notero e

. Place blacking top on our no

HOTE: To find out how long four cord should be, whenk I think I taker a become longth lone. If II better being in





HOTEL If placed explosely be used. Est place between to blasting rap. Poul a ross late the transport of the expli-



h. Pour equivalence or proportion.

In Pour equivalence or proportion, the pour is SEEN bit of a fines. Two first base of the plays in equivalent to a second or Education of the plays in expensionly to

6, Drid a hole in the renter of the suggestabled pipe cap large enough for the time used in pass through.



5. Wipe pipe threefs to nesser say filled material.















This cane charge will penetrow 3 to 4 in-seri on an engine or engone comparisoner.

Fring

































# MORTAL SCHAP ADVE

A directional altraposi lassedner than mus be pinced to the yath of advancing invege



### DESCRIPTION ASSESSMENT

less pipe approximately 2 E. (2 meter) being and 2 in . In 4 in . (1 in . 10 cm; in diameter and dipended as at least one and . Bulliaged artificity survivige case may also be used.

Each yearder or subraged artiflery principals should 1/T In. (200 gin field.)

Decrinal spiner communical field in or improvious ligation, decrinally, it is in the last of improvious has may alread to used.

Fig. 10. In the last control in 11/C C on on on other last secure and also recognished 120. 1000 (200), 1000.

Beach or resulting, such should first for life in 180 cm; the control of the last or control on the last or control on the last of the last or control on the last or control on the last or control on the last of the last or control on the la

shood 1 to 1000 grach total Bugs for washing, each about 60 in by 60 in (60 cm x 60 cm). Paper as long Bettery and when

on once has no expedit on the





### -----

# .....

This staped charge will province 5 to 17-4.0 and of armore 18 will standard a volicie if placed in the region on region except records.

## MATERIAL RESPONSE

Date City holly 1-1/2 m you

Marks or careful segment a

Electing cop
Ment opinion upon at both page
4 to off coping and 2 to of or

4 to 10 cm long and 2 to 10 cm dispersor. Optioning about the book without the local mendia. Place to 50 months of code basels.

Only Social wood paper she I feet model and shoot Like to 16 may be discontact and 5 to 150 cast on more

Annual and the (Wiles) or more in length. Tape or enting

FOR THE PERSON REGISTER AND ADDRESS OF THE MAN AND ADDRESS OF THE ADDRESS OF THE

I Flore collador error beste socil terrors of cyli trans on visitor part of to loop cylinder in bestig





### TABLE THE CHEEK

1. Extentio explorates in a

e. Place opiostra la splini e Elifo si e Van hosping vil



In Process the coll above 1/2 to , co. one tax the mobile of the top-1





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Middle Edward Verse :

i - Plant blanking cup to belo to top of co



 More better of Coin Berageinst the surger of surger for and bertweed, fluster to highly for our remedies man, as by planting by or street, surger and by of bester. But



Here is saving between the target and the boar of the body

A Consent leads from bluering age to Billing about

....

OVERTICAL discuss flow in long enough to provide a serie day

Prices steps 1, 5, and CALT/DRE of Medicals

in her when youth in East.





6. Make more that there is 1/4 in. pl many many space above made pipe. Remove output to 2 monatory 1/4 in.

 Done paper reports down and peak real (19 in: 61-30 mm) this content of expension and of explication to those a look



CALTERS for any mages of parties are to being and stony on the planes.

# b. 1707 m det melde militer b mel

- Pallow possibles, Section II, No. A. Bop E, Pares e, n. c. or shading CASTIONS.
  - When all the explosive has english, conserve the injury contribute and exit the resilient emplosive until it begins to disabor

These longs price on that the control of the contro

6. Here await pipe is againg of large pipe as that it posts on to all all pipe agains. It is a pipe against the pipe against pipe against pipe against personal assail, pipe and analysis or to the U.S. of more book to be form pipe.

 After exploring to cost. Event count that became on one disdicates the lay costing with a security with and safe norm applicaates. See false as when an appropriate explorer to 1/4 to 29 west from two.





NO. TODA

Plant Sparing cap to hole made for it

## SETTED THE OWNERS WAS BEING THE WAY THE THE WAY

 Place other and of pipe Book against the larget. Further pipe to larget by any convention means, must see by princing tape or setting.



# CAPTER: Be oursided base of one in Buck against larger and

- \_\_\_\_
  - Moderal E If was related to the large one in a
  - Crimp on served from
  - PiGre Rept 1, 1 and CAZTES of Real

### E OFFICIAL USE

# No. 1

UNLESTE PERSONNEL CAVITY DIAPED CHARGE

A modified staged charge out to made from stockers page 32 parentee 2 to 12 1/2 cm) of mod, producing a hole 1 5/2 to 2 0/4 to

### .....

then or most paper, from \$ \$1/2 on 1/2 on 6 4.1/2 cont on dissenses and

Sharing cap Sharing cap

is dissance Paulic or cariable regiment

in (EE in EE major demogra in (EE in EE major demogra in the care of the transport in the care of the

### as account

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b Paul ned intervent expirate Enlarge hale 2 114 in 1959 care to seen Leve 104 in 08 gars in log. Sensore shadon of number

### FOR OFFICIAL USE ONLY

a Time pipe squade down or peak LN in (E san) downloss and L'2 in (E LN one area for of appoints and of acquire



CHETTER Do not leaved blanking our coefficients to fire channel cha

# 1. If TST or other combin environm brased

 Puller provider, Service E, No. 2. Nep A, Park a, h stoday CASTERRY

 When all the explosion has maked remove the inner man and six the makes explosion until to brown in thicker.

C. Then pipe on the nuclear Perceptions into pipe unit.

C Propries on the rection Properties in page continues in page con

of Place Stepes and not be in control of ages at that it means to be of explosive Bold and or aske or place and proce explosure unit pr sexuant d until explosure a 1M in 10 mins those top and as each process before explosure to the mean in left



handmed explorers

4. After explorers to cook, Frenk Olek Stat Status on try

from top

### FOR OFFICIAL USE OF CIT

f. When explain photo basismed it again drawn and in the the Markey opmiddle of the legal



- 809 TO 114
- Make and I if also been blanking our
  - \_\_\_\_

# cop self charge a ready to Sec

Elementar and of year Code
against the larger. Federa pipe
to larger, by any recommend meson,
such to by yelecting hope or coding.



hape have for the transmitted

- 5 Crossed leads from Intercepting on the Brook-Brook
  - Cross secured but

EAUTICAL Brown have a long roungle in provide a sale

- 1. Participan when weeks in the
  - DE ONTREASE ENERGINEEY BY







NOTE. The emilian of the roots



Material	Puttida	inches	mektie	Sandore	
Gare		6.02	7 100	4	10 -10
Bod		1	3-1/2 on	3-1/3	1 ==
divelops.		P-UT	F 100	3-1/3	1
"I miy ree	end or ale	-	ned to preside	641	
Birci	A.		3-1/2 on.	3-5/9	++m

### 8 OFFICIAL USE

C. Name a hole of



\_\_\_\_

Controlled - the net place binaring cop to place until the fraued thape. Charge in result for use

## FOR 50

I From the proof of the box to be proof the proof of the charge. If non-destrict one is seen to charge of proof of the pro



1 Place (tipe if accessing) the Femal Shepel Charge or the singui as a first sching in between the base of charge and singul

If the price may be separate present behavior may wrive to diving street.

### OF CALLET COR C

## No. 24

This shaped sharps made from resolvation make hide will not through us to sent? I techno of armor depending upon the litter need

MATERIAL RESCRIEGO

ANCHES PENOMERS IN 1985

of page to used

epinone

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Type		Liner Sico				
	Material		10	merce	-	***
togin	sted.	533 legs X L/6 web	,	100	5-19	fee
mgin	ni-emissam	inkings x 6/16 wak	4-3/4	11.00	8-1/3	-
pipe intil position	-	1 donneter	1	Inn	1	2-m
pipe held position		I dameter	,	F-1/2 mm	1-1/4	1 00

POTE. These were the rely linear shaped charges of fair type fast mate from to be more offermed than the filthest Charge.



## .....

# 1. If paper in more

- Place the pape in the and out pape in half is wise. Remove the palet? according town of
  - held acritima from 10 h. Manuard our of the pro



## Plane imple or pipe intil austine with open and three force on a first author

3 Make container from any material tradicity. The container me be as wide on the angle or pipe half control. Notice as high, and as I as the desired out to be made with the storage.

4. Place remoters over the later people or pipe bell section; and top later be received.





WID works and or winds











### many material field a best story

 $\Lambda$  7 mm platel can be useful from 179° steel gas or water pipe and fittings.

### ...........

[]'V numbed time steel pipe lastest long with throughout 1/4 Solids pipe ping Two III steel pipe couplings Metal steep : reagals; 1/17 a 1/41 s<sup>2</sup> Two III starts bands Fish hand and . 40 or 60 (ap



(4) wood or motel red, (egger 8" line)

## PROCESSES

- Occability Brayest place and Elmings
- Notice cuts that theirs are (0) openins or other (laws to a page or distings.
  - groups. The buildst stimule closely (it lake the pipe without clog but the curryings cross \$100,000 km for sate pipe
    - Ounder Assesser of pipe MOST 997 WE have then 8 1/4 Money bolled diameter 5 176 Jackson 5 1, 27 and

Dittle 6 h/167 12, 43 cod flamne hale 1/87 happendondaly 1 of his one coupling to sensors a thread.



3 Decil a 15/00° () hate 3/4° (3, 7 cm); cartridge or a gauge tringe to beserve to have of the near ofte.



6. DOES a body on the context of the group that part longs storage for the BOLES MOST BE CONTEXED.

Place Fing.

b. Band metal some in "O stage and detail to be seen or research and detail to be seed or research."

Fig. to a small widther of tag.

This discretion was a first of the property of

I bell a U.D. Gamber 6. 41 cm. And Gamber 6. 10 cm. And Gamber 6. 11 cm.

of the bits should be approximately

 Stille the pope through thos balls and attach freed compley. Because decided plug tone man coupling. SOURCE STATE AND IN AND THE AREA SOURCE STATE OF THE AREA SOURCE STATE SOURCE STATE STATE STATE SOURCE STATE SOURCE STATE SOURCE STATE STATE SOURCE STATE SOURCE



11 Pastries metal stress of that tap will bit the said. Altert to stock to



II String wheth hands from a



PARELL CREE

- Locate a barrier meh se a simo wall or lengs true which you may clean behind he man the plate! repletes when fixed
  - Signate protest authority to a tipode are protest regard augment as in fault to female of the hundlest
  - Alban's a cord to the firing strap on the praces.
  - British and a death of the property
- S. Rejonar the cost to fire the piecel. (If pioted from not fire, whereas the athetic blade or increase the (\*  $\alpha$  output, )

IMPORTABLE Flow at last of five bounds from betaled the SAFILLY And then we has part the plated belong you alternet

### O OPERATE PL

5. 79.54

s. Remove plug from rose



A. Maria annualista describeratorio



s. Replace ying.

L. In Fire



h. Release strap.

# 5. Tr. Sensor

t. Remove plug from reasoning.

 Samet 1/6" diameter ste or woodes and too frame of plate! and youth shall need may.



# A 12 arrang shrippe size he made from NVC notes or got



### ....

Vest C a C a C

3/4 \* area | coupling 0+04 3/4 \* pripe plug

trans strap ()/4 × 1/19 × 6") Tw.ee, beeny (200 starts approximant I pand arress — and microstrats

Plai beed sail 60 or Next drill

Pile

Plantic Bands PROCADURE

## 1. Carefully baseed place and tim

- a. Make ours that there are no create or other flame.
  - Check testific discontinued place. A LL-groups about
    - Occasion dissentes of pipe smart be at heart 1 in. (I. 54 cm).



i. Our work from word saling a new or halfs.



## 4. Tark roughing unto juje until high!



Cost pipe and "N" grooms of wheth with whether or thousant and shall wer, place pipe in "N" grooms and wrap pipe and shall legather unless two hotters layers of twice. Cost twice with shallon.



1472



alf that [1] 2 "post the ping.

# 1. Scraw ping teta coupling



11. Produce come strong an anoth so that top will bit the band of



strap. Fast study bases through sorth to make strap and stack to server on each side of the stack.

1. Lando a hurrier such as a riese well or large left which yo on shad belief is one the weapen explorer when tired.

- lass best to Creat of the billithet.
- 2. Affaith a long cord to the firing strep on the shelper
- 1. Pull the cord at that the Eating array is beld book.
  - Falses the sand in the the sheipe. If sheipe does not five, therein the sheric basis or increase their marker [

MPOSTRET: Flor at least five rounts from behind the

## BOW TO SPEAKE BRODGE

h. To Lead



a firm the set of the



- s. Server ying hand right how employ
- 1 Japan



- s. Trill strap back and held with thunk
- h Britann str
- 1 Talkinsi Sun
  - n. Tarthe wine and
  - h Bate on out certifiqu







7. Seal and of year with we



This result to traded and filled in the other messure as elected shorteful. The short spread will be about 1/3 that of a blocked project.



hit is a \$15.00 to Separate share























- t Different files
- s. This play set of encolor





### FOR OFFICIAL TITL OR

b. Place statings was subprise; exploitents rose god, and press should deligate to encled for before of point. The primer is one people in:



### THE OFFICIAL THE OF











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Rival star No. In 181 and long and 170 in 12 and to that stars or to explication, download on one and

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y mpo DR salety Auer CA "Beslur sapelorer metabon" serviced tipes or negling ried slamp, alrest 4 lat is 104 lat is 3/38 lat is 104 cm s.8.

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West School
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Exacts bank
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Street

or blod, 1-04 in 131 may long Extractions, 5/33 in 19446, long 13 had Solid disk 7 in 10 kW can in domester and 6/31 in 16-kW may blok 540, 1/39 in 10-1/3 may or english to domester and set to 50

# SOCERCIAL.

1. Condity has not pope and fittings. So you've fitting and an condition of latest flame.



### POR OPPICAL USE OF L





1. After page to send with printing of Year.





### POR OFFICIAL USE ON

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909 72 UE

















## FOR EPPICAL CEE O





2. Other results in these, stell model strong best and defende

C. When being James In an I. Annex or and our lives in Read our and of solery has Technologies has through



3. To covered mention in solicy flow over relation of





t beginn mile

t . When each in this part much treat off with strong, flow, quick holder

### POR GPYSCHAL WIR OR

# MARKET CHICK - THAT ARM ON MATCHE BARK FORE

 Louis a lower subset a stem self or large tree witch on stead below to use the waters applicate when fired

- Note paradity is a wife or other rigid appear of least too but to their of the barrier
- -----
  - . Pull the court on that the Dring strap in held best
- Exhaus the cost to fire the gas. If gas done on fire, shown the charts bank or increase first sentine ;

<u>SEPCRESSY</u>: First at least this results from behind the bumber and than to despite the particular year atmospt to shookly first it.









A. We colliser pixels one for made from 3/N in . somital discount afted that  $\gamma$  well  $\gamma$  you and fittings. Collect range to approximately 30

## Second but manuals

Red pipe, 1/4 in 18 mm; assessed demonstrated in 34 mm; long 462 demonstrates (1/4) Bold marries, 1/4 m, 18 mm;

ppe pog, 14 to de sooj ministali direndar I pipe respitago, 1/4 to di mas reniadi direndar

Metal pines, approximately L/3 in 8 L/4 in 2 to 12 to 2 to 2 to 2 2 225 on a or 30-1/3 on Exerts bank

Fire hard and 1 kill or 67s, approximately 1/18 in discounter (1-1/9 pers)

\$100 cm x 18-1/2 cm x \$-1/2 cm; \$100 cm x 18-1/2 cm x \$-1/2 cm;

discrete and 6 in. (28 res) flow to high

# PROCEDURE

- Currelially inspect paper and the
- n. While more that there are 70 create or other flows to the pipe of filtrates.
- Cont inside distance of pipe using a 16 collect methody as a series. The latter should be dead to the time without
- Other disposer of pape NORT MOT SE less than 1-1/5 times

### TAND MED CHAIR

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- Fallow procedures of Santon SS, No. 1, stope 4 Santagh SS,
- THE PERSON NAMED IN T

## 20% TO SPERATE PRO

Follow provides of NEW TO CREMEN PROVIDE GOMES St. St. L. William L. E. and S

# NAME AND POST OF THE PARTY AND POST OFFI

A. II Chillred print can be made from 1/9 to compand distriates berry, mind gas or water pape and limited. Latind range is

# MATERIAL RESIDER

The same bases

me, constant, 12 to me; remind discussor in 18 cm; beg with

And paying 19 to 42 and married domains I steel pay couplings, 1/8 in. 1

presince dissector

Model storage, approximately L/S to
a L/S to a L/S of them a 4 to

S SECOND OF LOT USE Souther hands Fill head held - 4D or ED laggered money (1) of to: 13-128 may

Sureday Twendayroon, PR Naviword, Jin alin siin

NULL Stand or motel men, tolt in, all many

# PROCESSES

A. Supplier based upo and the

to Minks more than there are 190 create or other from in the

 Check tracks distinutes of pipe using a -30 million respectige, long or about, as a gauge: The below about the discovery later the pipe without Secting, but the recording state (SOURLE) NOT

N. Note the pape.

4. Objects discovery of pipe MERT MOT RE incomings 1-1/2 kinese
the helical discovery.

### FOR OFFICIAL USE O

2 Delit a 13/56 bit, (1/2 me) dimanus bella 6/78 bit (1/4/2 me) desp in app for long metrologic (2/ a short sectoriogo in word, drift bella fill in a (10m) single. When a merbrings in beautied less that place, the absorber of the maps absorbed bett



 denov the employ sate the pope. On employ length to allow pay ploy to Goved to pipe their against the employee stare.



6 Delil a bale off mater of the page ping but boys energy by to said in the format.



SOUL Belleties sout at ory contribution



4 Police provides of factor (8, 76 1 page 6 facigh 1) 1 Police MESTY CREEK, Seeker (8, 76 1

NOW TO OPERATE

Filler president of NOW TO OPERATE PURPLE, Senten II 1

Les algunars aparama-polonocary, for improvious small a weapons of section X(t) can be made from stead give or notest gaps.

### MATERIAL

Commit resister

See Today | See Statement | See Today | See Today | See See See Today | See To

circle - See Tritle II for Incomplete

## motion areaton

many and a second constant of the color of the second decrees

Delicitor to rows of being in some stories. The Vella I for december





### NOR GRANCING ORE GREEK

		,		(Copting)	year Seer	(4-5m)
65 Oct.	2,7	3/N	10	24	12	- 44
JM Oil	3/1	3/4	1/4	3/8	11	- 41
T mm	0.7	3/4	18	5/4	**	- 41
7 44 mm	$k_1/k$	1/4	1/4	3/6	**	68
III Cal.	16	1.50	1/04	1679	14	- 41

# All Strangers in below



Cod coupling sample to across factors of strongers on Michael Social Sample and of the children Sample Social Sample Social Sample Social Sample Sample Social Sample Sample

75

6. Supervise the two half of the growth creations for the below half of the contract of the co

A should the pipe shippin to the designed had a pipe to the test of the test o

### POS OFFICIAL DUS OND

7. Part the absorbed cells in too bull of greenin contains landing talls to center. Associate contract to the better bull.



1. Threat the other coupling outs the pipe sipple

NOTE. A broger committee and pipe signife, with many "4" and disconnictes as those green, will further option the eigenture of t

# ON THE OWN

- med the low eignesters spotted on the extended resident
- Tarte file second comes and area belonds months and of the ex-

mir E. C	rine Vehicle - Name
mpm	Critica Vad Box
11 06.	In L/X or 6 Section

6. Napa is not easy for



COLUMN ALLE, AND SOURCE STATE

This took has been repealed of ferm Velume 1 of the complete and original Special Forces loom had Start Books and should not be conduced with TM 25-210, which contains only